IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled)

2. (Currently amended) An improved method of treating an autoimmune disease or disorder treatable by inhibiting gp39 expression or the interaction of human gp39 with CD40, wherein said method comprises

obtaining anti-human gp39 antibodies;

assaying to identify anti-human gp39 antibodies that inhibit the interaction of human gp39 with CD40;

assaying to identify anti-human gp39 antibodies that compete for binding to human gp39 with murine antibody 24-31, produced by hybridoma cells assigned ATCC accession no. HB-11712;

assaying *in vitro* to identify anti-human gp39 antibodies that are non-agonistic of a ~~human T-cell~~ an activation response by purified human $CD4^+$ T-cells, the activation response selected from the group consisting of T-cell proliferation, the production of interleukin 2 (IL-2), the production of interleukin-4 (IL-4) and the production of interferon γ (IFN-γ);

identifying anti-human gp39 antibodies that inhibit the interaction of human gp39 with CD40, compete with murine antibody 24-31 for binding to human gp39, and are non-agonistic of said human T-cell activation response; and

administering a therapeutically effective amount of said anti-human gp39 antibodies that inhibit the interaction of human gp39 with CD40, compete with murine antibody 24-31 for binding to human gp39, and are ~~substantially~~ non-agonistic of said human T-cell activation response.

3. (Previously presented) The improved method of claim 2 wherein said disease or disorder is characterized by induction of IL-2 production, and the anti-human gp39 antibodies that are administered are non-agonistic of IL-2 production by human T cells.

4. (Canceled)

5. (Previously presented) The improved method of claim 2, wherein said autoimmune disease or disorder is selected from the group consisting of rheumatoid arthritis, psoriasis, multiple sclerosis, diabetes, systemic lupus erythematosus and idiopathic thrombocytopenic purpura.

6-15. (Canceled)

16. (Previously presented) The improved method of claim 2, wherein said autoimmune disease or disorder is multiple sclerosis.

17. (Previously presented) The improved method of claim 2, wherein the anti-gp39 antibodies that are administered are chimeric or humanized antibodies having constant regions of human antibodies.

18. (Currently amended) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered are chimeric ~~"primatized"~~® antibodies having light and heavy chain variable regions of an antibody of an Old World monkey, and constant regions of human antibodies.

19. (Previously presented) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered are humanized antibodies.

20. (Previously presented) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered have heavy chain constant regions from a human antibody of isotype selected from gamma-1, gamma-3, and gamma-4.

21. (Previously presented) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered comprise a light or heavy chain that has at least one conservative amino acid substitution.

22. (Currently amended) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered comprise a heavy chain constant region having an amino acid substitution selected from the group consisting of

replacement of leucine with glutamic acid at ~~Kabat~~ position 236, and

replacement of serine with proline at ~~Kabat~~ position 229.

23. (Previously presented) The improved method of claim 17, wherein the anti-gp39 antibodies that are administered bind to the same epitope of gp39 as murine antibody 24-31, produced by hybridoma cells assigned ATCC accession no. HB-11712.

24. (Previously presented) The improved method of claim 23, wherein the anti-gp39 antibodies comprise the complementarity determining regions of the 24-31 antibody light and heavy chain variable regions shown in Figure 7 (SEQ ID NO:27) and Figure 8 (SEQ ID NO:28), respectively.

25. (Previously presented) The improved method of claim 24, wherein the anti-gp39 antibodies comprise:

a humanized light chain variable region comprising an amino acid sequence selected from the group consisting of:

DIVMTQSPSFLSASVGDRVTITC KASQNVITAVA WYQQKPGKSPKLLIY SASNRYT GVPDRFSGSGSGTDFTLTISSLQPEDFADYFC QQYNSYPYT FGGGTKLEIK; (SEQ ID NO:1)

DIVMTQSPDSLAVSLGERATINC KASQNVITAVA WYQQKPGQSPKLLIY SASNRYT GVPDRFSGSGSGTDFTLTISSLQAEDVADYFC QQYNSYPYT FGGGTKLEIK; (SEQ ID NO:2)

DIVMTQSPSFMSTSVGDRVTITC KASQNVITAVA WYQQKPGKSPKLLIY SASNRYT GVPDRFSGSGSGTDFTLTISSMQPEDFADYFC QQYNSYPYT FGGGTKLEIK; (SEQ ID NO:3) and

DIVMTQSPDSMATSLGERVTINC KASQNVITAVA WYQQKPGQSPKLLIY SASNRYT GVPDRFSGSGSGTDFTLTISSMQAEDVADYFC QQYNSYPYT FGGGTKLEIK;. (SEQ ID NO:4)

and a humanized heavy chain variable region comprising an amino acid sequence selected from the group consisting of:

EVQLQESGPGLVKPSETLSLTCTVSGDSIT NGFWI WIRKPPGNKLEYMG YISYSGSTYYNPSLKS RISISRDTSKNQFSLKLSSVTAADTGVYYCAC RSYGRTPYYFDF WGQGTTLTVSS; (SEQ ID NO:5)

EVQLQESGPGLVKPSQTLSLTCTVSGDSIT NGFWI WIRKHPGNKLEYMG YISYSGSTYYNPSLKS RISISRDTSKNQFSLKLSSVTAADTGVYYCAC RSYGRTPYYFDF WGQGTTLTVSS; (SEQ ID NO:6)

EVQLQESGPGLVKPSQTLSLTCAVSGDSIT NGFWI WIRKHPGNKLEYMG YISYSGSTYYNPSLKS RISISRDTSNNQFSLNLNSVTRADTGVYYCAC RSYGRTPYYFDF WGQGTTLTVSS; (SEQ ID NO:7) and

EVQLQESGPGLVKPSETLSLTCAVYGDSIT NGFWI WIRKPPGNKLEYMG YISYSGSTYYNPSLKS RISISRDTSKNQFYLKLSSVTAADTGVYYCAC RSYGRTPYYFDF WGQGTTLTVSS. (SEQ ID NO:8)

26. (Previously presented) The improved method of claim 25, wherein the anti-gp39 antibodies that are administered have heavy chain constant regions from a human antibody of isotype selected from gamma-1, gamma-3, and gamma-4.

27. (Previously presented) The improved method of claim 25, wherein the anti-gp39 antibodies that are administered comprise a light or heavy chain that has at least one conservative amino acid substitution.

28. (Currently amended) The improved method of claim 25, wherein the anti-gp39 antibodies that are administered comprise a heavy chain constant region having an amino acid substitution selected from the group consisting of

replacement of leucine with glutamic acid at ~~Kabat~~ position 236, and

replacement of serine with proline at ~~Kabat~~ position 229.

29. (Canceled)

30. (Currently amended) The improved method of claim 2, wherein the step of screening to identify anti-human gp39 antibodies that inhibit the gp39-CD40 interaction and are ~~substantially~~ non-agonistic of a T-cell activation response comprises assaying *in vitro* to determine the effect of an anti-human gp39 antibody on the production ~~of a cytokine~~ by purified human $CD4^+$ T cells of a cytokine selected from IFN-γ, IL-4, and IL-2.

31. (Canceled)

32. (Currently amended) The improved method of claim 30, wherein the anti-human gp39 antibodies that are administered inhibit the gp39-CD40 interaction and are non-agonistic of production by purified human $CD4^+$ T cells of a cytokine selected from IFN-γ, Il-4, and IL-2.

33. (Currently amended) The improved method of claim 2, wherein the step of screening to identify anti-human gp39 antibodies that inhibit the gp39-CD40 interaction and are ~~substantially~~ non-agonistic of a human T-cell activation response comprises assaying *in vitro* to determine the effect of an anti-human gp39 antibody on ~~human T-cell~~ proliferation of purified human $CD4^+$ T cells.

34. (Currently amended) The improved method of claim 33, wherein the anti-human gp39 antibodies that are administered inhibit the gp39-CD40 interaction and do not stimulate ~~human T cell~~ proliferation of purified human $CD4^+$ T cells.

35. (Previously presented) The improved method of claim 2, wherein the anti-gp39 antibodies are administered parenterally.

36. (Previously presented) The improved method of claim 17, wherein the anti-gp39 antibodies are administered parenterally.

37. (Previously presented) The improved method of claim 17, wherein the dosages of anti-gp39 antibodies that are administered are in the range of 0.05 to 100 mg per kilogram body weight per day.

38. (Previously presented) The improved method of claim 37, wherein the dosages of anti-gp39 antibodies that are administered are in the range of 0.5 to 10 mg per kilogram body weight per day.